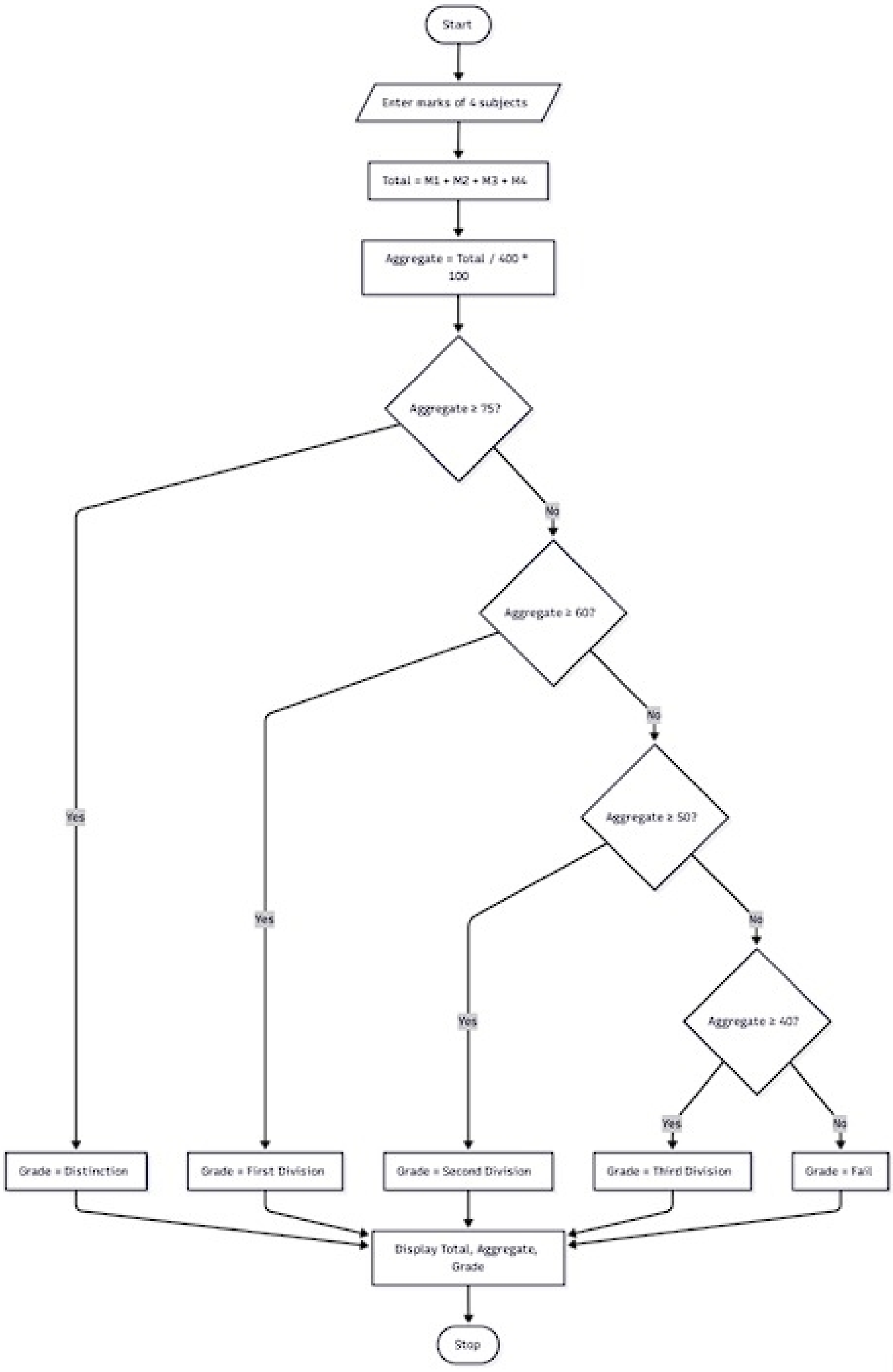
Algorithm: Student Marks, Percentage, and Grade

1. **Start**
2. **Input marks of four subjects**
   (M1, M2, M3, M4)
3. **Calculate Total Marks**
   `Total = M1 + M2 + M3 + M4`
4. **Calculate Aggregate Percentage**
   `Aggregate = (Total / 400) × 100`
5. **Check Aggregate and assign Grade**
   - If `Aggregate ≥ 75` → **Distinction**
   - Else if `Aggregate ≥ 60 and < 75` → **First Division**
   - Else if `Aggregate ≥ 50 and < 60` → **Second Division**
   - Else if `Aggregate ≥ 40 and < 50` → **Third Division**
   - Else → **Fail**
6. **Display Total Marks**
7. **Display Aggregate Percentage**
8. **Display Grade**
9. **Stop**


Start
Enter marks of 4 subjects
Total = M1 + M2 + M3 + M4
Aggregate = Total / 400 * 100
Aggregate ≥ 75?
No
Aggregate ≥ 60?
No
Aggregate ≥ 50?
No
Aggregate ≥ 40?
Yes
No
Yes
Yes
Yes
Grade = Distinction
Grade = First Division
Grade = Second Division
Grade = Third Division
Grade = Fail
Display Total, Aggregate, Grade
Stop

5.1.2. Student Grade Based on Aggregate

16:05

Write a program to calculate the total marks, aggregate percentage, and grade of a student based on marks in four subjects. The grade is determined as follows:

- Aggregate > 75%: Distinction
- Aggregate >= 60% and < 75%: First Division
- Aggregate >= 50% and < 60%: Second Division
- Aggregate >= 40% and < 50%: Third Division
- Aggregate < 40%: Fail

Input Format:

- Four space-separated integers representing the marks in four subjects.

Output Format:

- The first line should print the total marks.
- The second line should print the aggregate percentage with two decimal places.
- The third line should print the grade.

Constraints:

- 0<=marks in each subject<=100

Sample Test Cases +

Explorer studentG... Submit Debugger

```
1  marks = list(map(int, input().split()))
2  total = sum(marks)
3  aggregate = total / 4
4
5
6  if aggregate > 75:
7      grade = "Distinction"
8  elif aggregate >= 60:
9      grade = "First Division"
10 elif aggregate >= 50:
11     grade = "Second Division"
12 elif aggregate >= 40:
13     grade = "Third Division"
14 else:
15     grade = "Fail"
16
17
18 print(total)
19 print(f"{aggregate:.2f}")
20 print(grade)
```

Terminal Test cases

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